CLEANCORE AQUEOUS OZONE SOLUTION

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

Date of issue: 02/24/2016 Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture

Trade name : CLEANCORE AQUEOUS OZONE SOLUTION

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Surface cleaning

1.3. Details of the supplier of the safety data sheet

CleanCore Technologies, LLC
13714 A. Street
Omaha, NE 68144
Information: 1-877-860-3030

1.4. Emergency telephone number

Emergency number : 1-877-860-3030

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Not classified

2.2. Label elements

GHS-US labelling

No labelling applicable

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of HazCom 2012.
Dissolved ozone gas in water 0 to 2.0 ppm

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Inhalation of aqueous ozone mist may lead to irritation of the lungs. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If exposure symptoms persist, seek medical advice.

First-aid measures after skin contact : Not known to cause irritation, but if skin irritation occurs, wash well with fresh water. If skin irritation persists, seek medical attention.

First-aid measures after eye contact : If eye irritation occurs with exposure to aqueous ozone, it is suggested to efficiently rinse eye with potable water for 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice and attention.

First-aid measures after ingestion : No specific measures have to be taken if the product is swallowed.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : None under normal use. Inhalation of aqueous ozone mist may lead to irritation of the lungs. Mild irritation may occur if a person is exposed to gaseous ozone for an extended period of time.

Symptoms/injuries after skin contact : None under normal use.

Symptoms/injuries after eye contact : May cause minor eye irritation.

Symptoms/injuries after ingestion : Not known or expected to be harmful to health in normal use.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : None to our knowledge.

5.2. Special hazards arising from the substance or mixture

Fire hazard : None known.

Explosion hazard : None known.

Reactivity : No dangerous reactions known under normal conditions of use.

5.3. Advice for firefighters

Firefighting instructions : No special requirements.

Protective equipment for firefighters : No additional risk management measures required.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Spilled material may present a slipping hazard.

6.1.1. For non-emergency personnel

Protective equipment : For further information refer to section 8: Exposure-controls/personal protection.

6.1.2. For emergency responders

Protective equipment : For further information refer to section 8: Exposure-controls/personal protection.

6.2. Environmental precautions

None known.

6.3. Methods and material for containment and cleaning up

For containment : No additional risk management measures required.

Methods for cleaning up : Allow the residual product to evaporate. No special procedures required.

6.4. Reference to other sections

For further information refer to section 8: Exposure-controls/personal protection. For disposal of residues refer to section 13: Disposal considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Aqueous ozone solution should not be sprayed as an aerosol to avoid the release of ozone gas out of aqueous solution. The decay rate of ozone gas is related to temperature and organic material exposure. Testing has proved that the rate of ozone gas released from aqueous solution is below the PEL established by OSHA for gaseous ozone. Avoid extended periods of use in confined areas without proper ventilation.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : No special measures required.

Incompatible materials : Natural rubber components may degrade or dry-out over time with extended use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls : Handle in accordance with good industrial hygiene and safety procedures.

Hand protection : Impermeable protective gloves. Chemical resistant gloves (according to European standard EN 374 or equivalent).

Eye protection : No special eye protection equipment recommended under normal conditions of use.

Respiratory protection : No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Color	:	Colorless.
Odor	:	Fresh
Odor threshold	:	No data available
pH	:	No data available
Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	100 °C (212°F)
Flash point	:	No data available
Relative evaporation rate (butyl acetate=1)	:	≈ 1
Flammability (solid, gas)	:	No data available
Explosive limits	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available
Vapor pressure	:	2.3 kPa (20°C)
Relative density	:	No data available
Relative vapor density at 20 °C	:	0.62
Density	:	1
Solubility	:	Water: completely soluble
Log Pow	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

No dangerous reactions known.

10.4. Conditions to avoid

None under normal conditions.

10.5. Incompatible materials

Natural rubber components may degrade or dry-out over time with extended use.

10.6. Hazardous decomposition products

None known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Likely routes of exposure	:	Ingestion; Inhalation; Skin and eyes contact
Acute toxicity	:	Not classified
Skin corrosion/irritation	:	Not classified
Serious eye damage/irritation	:	Not classified
Respiratory or skin sensitization	:	Not classified
Germ cell mutagenicity	:	Not classified

Carcinogenicity	:	Not classified
Reproductive toxicity	:	Not classified
Specific target organ toxicity (single exposure)	:	Not classified
Specific target organ toxicity (repeated exposure)	:	Not classified
Aspiration hazard	:	Not classified
Symptoms/injuries after inhalation	:	None under normal use. Inhalation of aqueous ozone mist may lead to irritation of the lungs. Mild irritation may occur if a person is exposed to gaseous ozone for an extended period of time.
Symptoms/injuries after skin contact	:	None under normal use.
Symptoms/injuries after eye contact	:	May cause minor eye irritation.
Symptoms/injuries after ingestion	:	Not known or expected to be harmful to health in normal use.

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on ozone layer	:	No additional information available
Effect on the global warming	:	No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : May be disposed of in household waste landfill.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated for transport

TDG

Not regulated for transport

Transport by sea

Not regulated for transport

Air transport

Not regulated for transport

SECTION 15: Regulatory information

15.1. US Federal regulations

No additional information available

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

National regulations

No additional information available

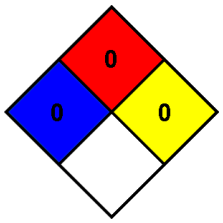
15.3. US State regulations

No additional information available

SECTION 16: Other information

Date of latest revision: February 24, 2016
Sources of key data: Data arise from reference works and literature.

NFPA health hazard : 0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials
NFPA fire hazard : 0 - Materials that will not burn.
NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product